

## EAST Search History (Prior Art)

S2	0	S1 and (out near of near servic\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:10
S3	101	S1 and (servic\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:10
S4	78	S1 and (fail\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:11
S5	14	S1 and (fail\$4) and serving	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:11
S6	21	S1 and (fail\$4) and server	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:35
S7	22	S1 and (fail\$4 or (shut near down)) and server	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:36
S8	0	out adj of adj serv\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:38

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S9	32545	out adj2 service	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:38
S10	1608	(out adj2 service) with message	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:38
S11	956	(out adj2 service) with message and server	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:39
S12	37	(out adj2 service) with message and server and (serving near network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:39
S13	11	S12 and @ad<"20031021"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:41
S14	343	((out adj2 service) or failure or (shut adj down) or disconnect\$5) with message and server and (serving near network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:44
S15	38557	((out adj2 service) or failure or (shut adj down) or disconnect\$5) with message	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:45

## EAST Search History (Prior Art)

S16	16212623	((base adj station) or BS or AP or (access near point) or node\$B)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:46
S17	31894	S15 and S16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:47
S18	6423	S15 and S16 and (message near type)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:47
S19	4620	S15 and S16 and (message near type) and error	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:48
S20	1792	S15 and S16 and (message near type) and (error near message)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:48
S21	692	S15 and S16 and (message near type) and (error near message) and registrat\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:49
S22	364	S21 and @ad<"20031021"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:49

## EAST Search History (Prior Art)

S23	11312052	((mobile or wireless or portable or user or subscriber or handheld or cell or cellular or VOIP or SIP) near2 (unit or phone or telephone or station or terminal or device or apparatus or equipment or agent or node)) or pda or (personal near2 assistant) or MT or "MS" or node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:50
S24	27833	S15 and S16 and S23	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:51
S25	678	S24 and (message near type) and (error near message) and registrat\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:52
S26	629	S24 and (message near type) and (error near message) and registrat\$4 and detect\$4 and determin\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:53
S27	3	S26 and ((call adj session adj control adj function) or "CSCF")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:54
S28	333	S26 and @ad<"20031021"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 16:56
S29	118	S28 and (out adj2 service)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 17:24

## EAST Search History (Prior Art)

S30	0	S28 and (out adj2 service) and "cscf"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 17:50
S31	76	S28 and (out adj2 service) and proxy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 17:50
S32	2	S28 and ((out adj2 service) with (error near message))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 17:51
S33	1815	("cscf" and (call near session near control near function))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 17:55
S34	97	S33 and (out adj2 servic\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 17:56
S35	394	S33 and ((out adj2 servic\$3) or failur\$4 or (shut adj down))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 17:57
S36	45	S33 and ((out adj2 servic\$3) or failur\$4 or (shut adj down)) and (error near message)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 17:57

## EAST Search History (Prior Art)

S37	4	S36 and @ad<"20031021"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 17:58
S38	7	S33 and (service near failure)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 18:02
S39	0	"P-CSCF" and (out adj of adj serv\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 18:35
S40	0	"CSCF" and (out adj of adj serv\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 18:36
S41	0	(out adj of adj serv\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 18:36
S42	32545	(out adj2 service)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 18:36
S43	143	(out adj2 service) and "CSCF"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 18:36

## EAST Search History (Prior Art)

S44	131	(out adj2 service) and "CSCF" and server	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 18:36
S45	20	S44 and @ad<"20031021"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 18:41
S46	3	S44 and @ad<"20031021" and fail\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 18:44
S47	2	"10615420"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/10 19:21
S48	84	("s-CSCF" or (serving near call near session)) with ((time near out) or (out adj2 service) or failure or (shut adj down))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 09:57
S49	8	S48 and @ad<"20031021"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 10:05
S50	3	"20050009520"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 10:24

## EAST Search History (Prior Art)

S51	237	server adj time adj out	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 11:06
S52	161	S51 and @ad<"20031021"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 11:07
S53	3	"20050009520"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 12:53
S54	0	S51 and (detect\$5 with (out adj2 service))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 13:18
S55	1240	(detect\$5 with (out adj2 service))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 13:18
S56	305	(detect\$5 with (out adj2 service)).bsum.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 13:18
S57	305	(detect\$5 with (out adj2 service)).bsum. and (detect\$5 with (out adj2 service))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 13:18



## EAST Search History (Prior Art)

S58	192	S57 and @ad<"20031021"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 13:19
S59	15	S57 and @ad<"20031021" and entity	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 13:22
S60	192	S57 and @ad<"20031021"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 13:24
S61	120735	(detect\$5 with ((out adj2 service) or unavailable or failure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 13:35
S62	14	S48 and S61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 13:36
S63	120738	(detect\$5 with ((out adj2 service) or unavailabl\$5 or failure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 14:11
S64	4674	S63 and (error near message)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 14:11

## EAST Search History (Prior Art)

S65	492	S63 and (error near message) and (out near2 service)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 14:12
S66	368	S65 and @ad<"20031021"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 14:13
S67	85	(service near failure).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 14:16
S68	85	(service near failure).ti. and (service near failure).ab,ti,bsum.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 14:21
S69	2	EP-1676415-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 14:24
S70	12767	(detect\$5 with ((out adj2 service) or unavailabl\$5 or failure)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 14:31
S71	94	(detect\$5 with ((out adj2 service))).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 14:31

## EAST Search History (Prior Art)

S72	250	("CSCF" or (call near session)) with ((time near out) or (out adj2 (service or order)) or failure or (shut adj down) or unavailab\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 14:46
S73	47	S72 and @ad<"20031021"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 15:00
S74	2	(10/480607).APP.	US-PGPUB; USPAT; DERWENT	OR	OFF	2009/11/11 15:40
S75	9	S72 and @ad<"20031021" and (error near message)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 16:07
S76	5	S72 and @ad<"20031021" and (error near message) and (message near3 type)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 16:11
S77	95	("CSCF" or (call near session)) and @ad<"20031021" and (error near message) and (message near3 type)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 16:13
S78	138	((error near message) with ((out near3 (service or order)) or unavailab\$4)) and (message near3 type)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 16:17
S79	71	S78 and @ad<"20031021"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/11 16:17

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S80	55	(detect\$5 with ((out adj2 service))).cm.	USPAT; UPAD	OR	ON	2009/11/11 14:32